



Figure 1
Biocular EPE

Prior art

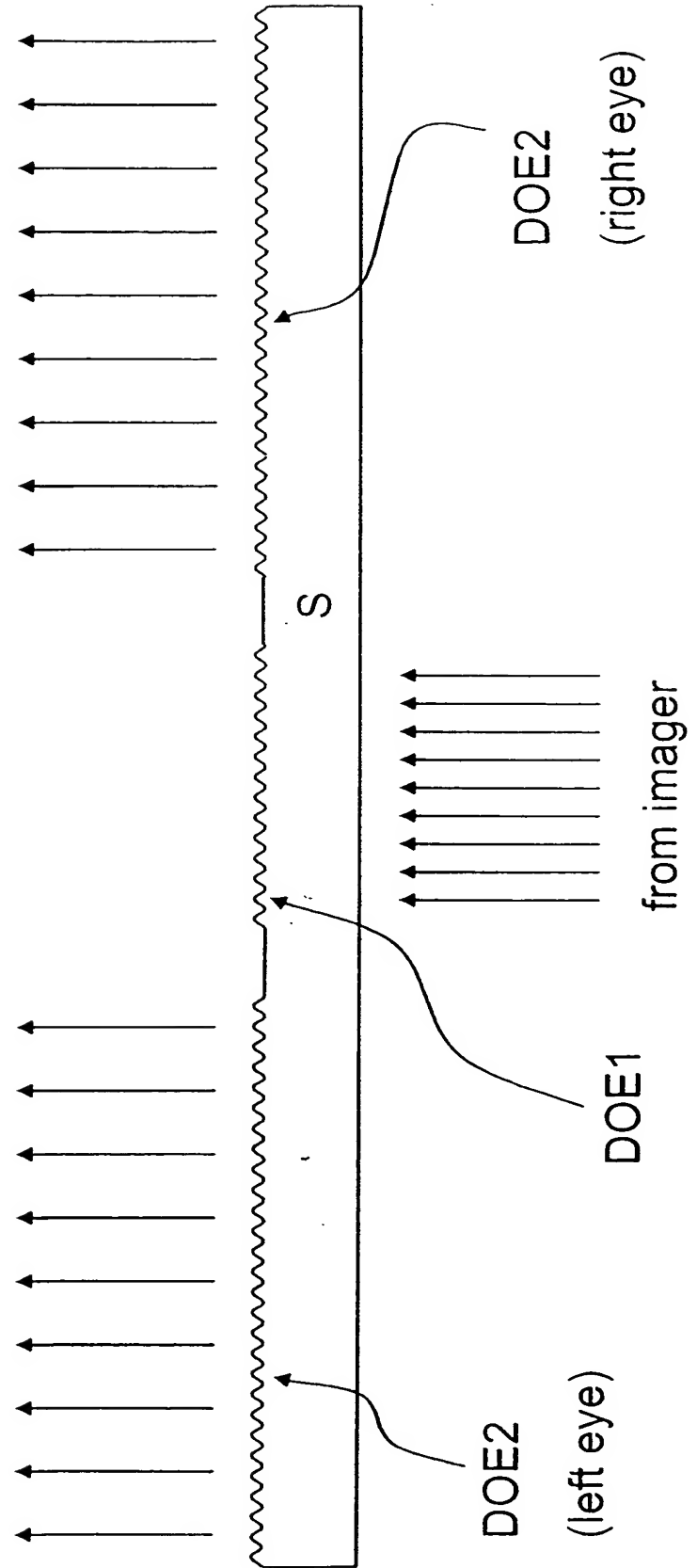


Figure 2
Biocular EPE

Prior art

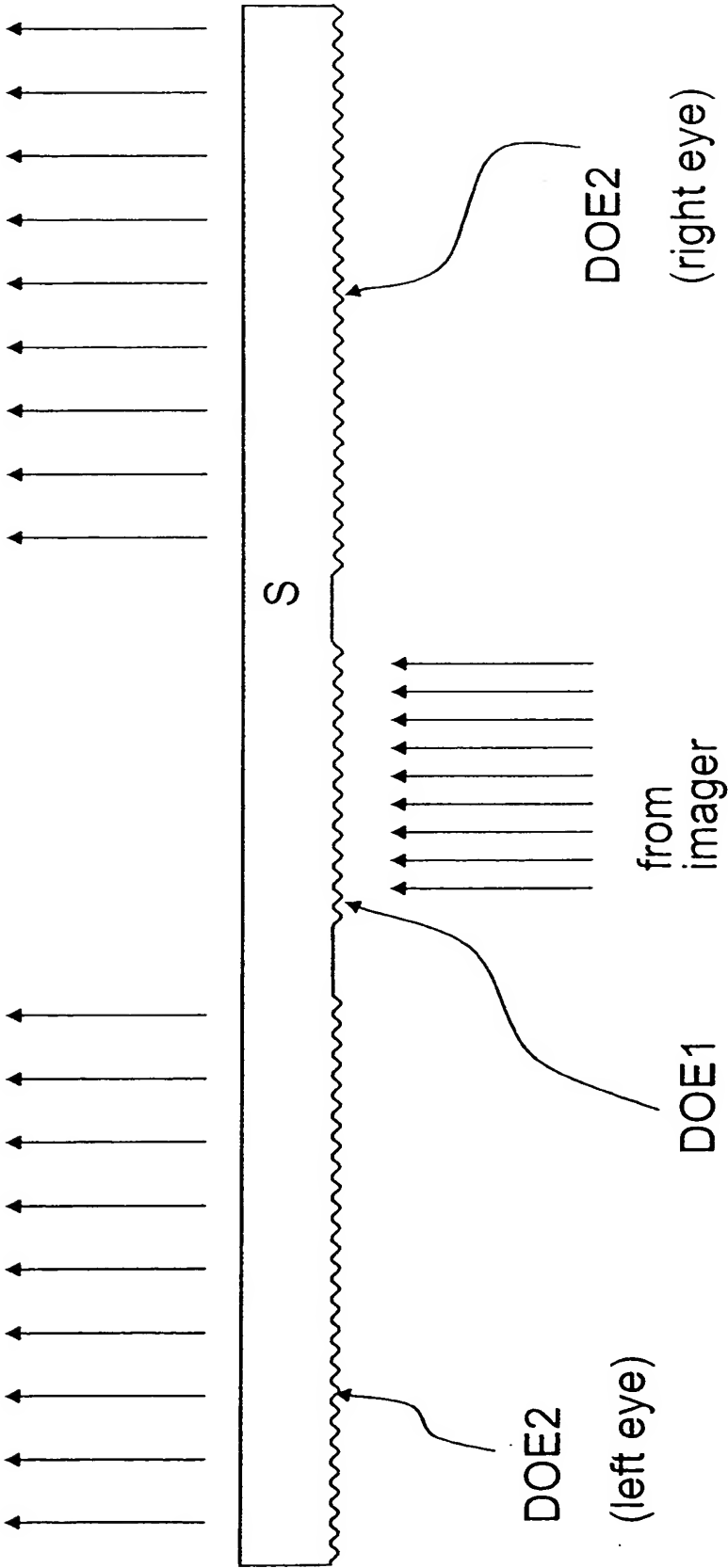
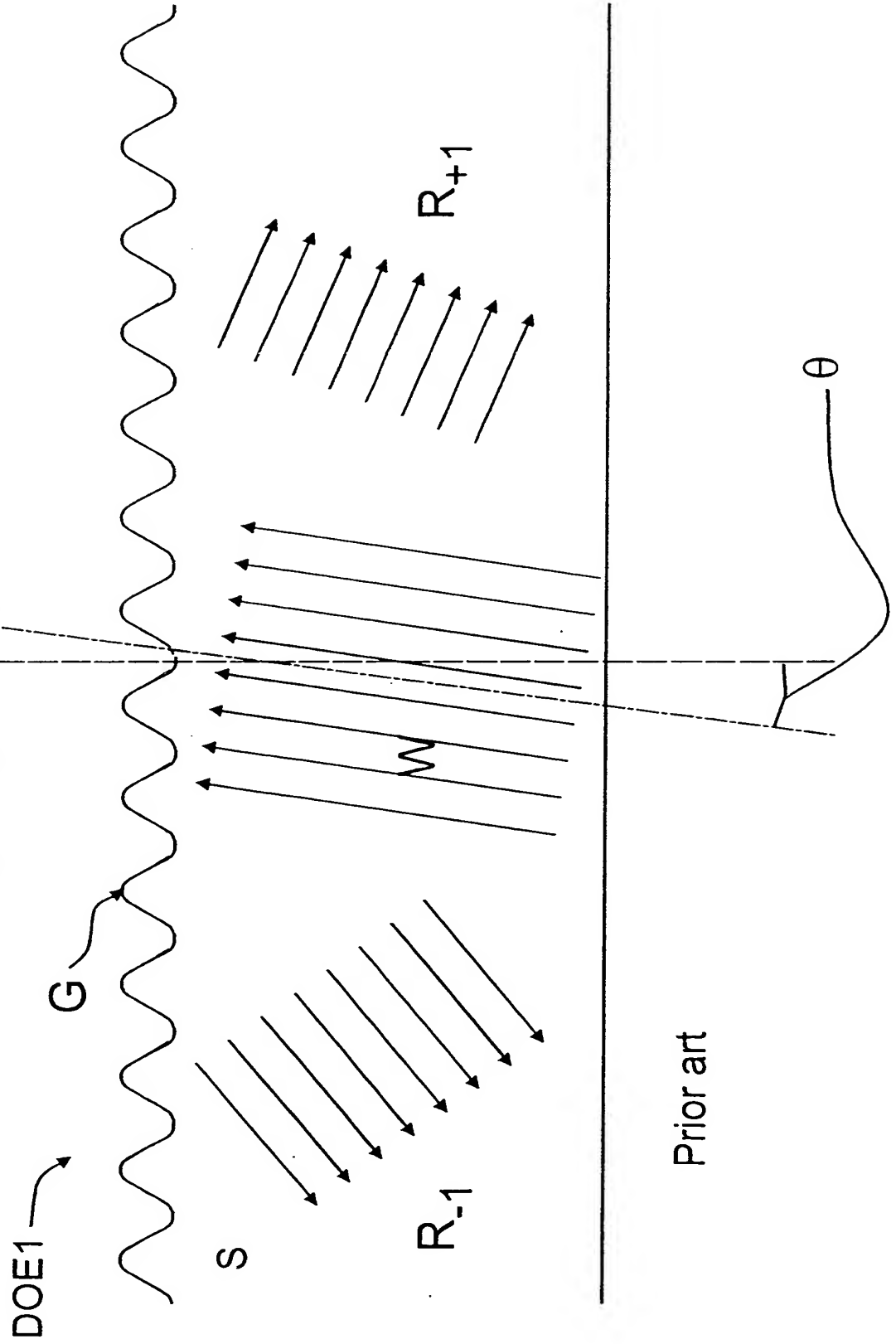


Figure 3

Continuous grating with symmetric period profile



Prior art

Figure 4

Angular dependency

Profile = $A \cdot \sin(2\pi x/d)$

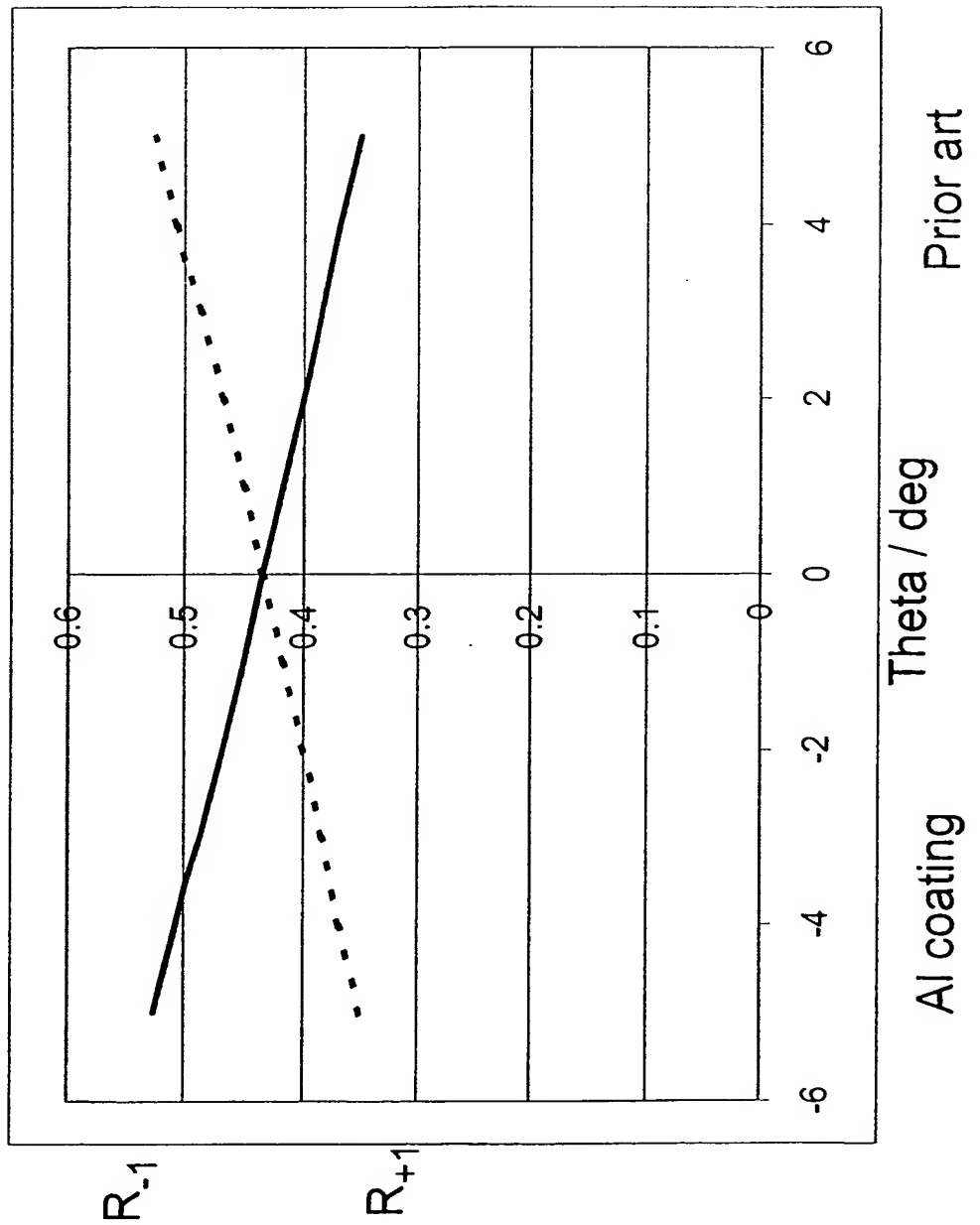
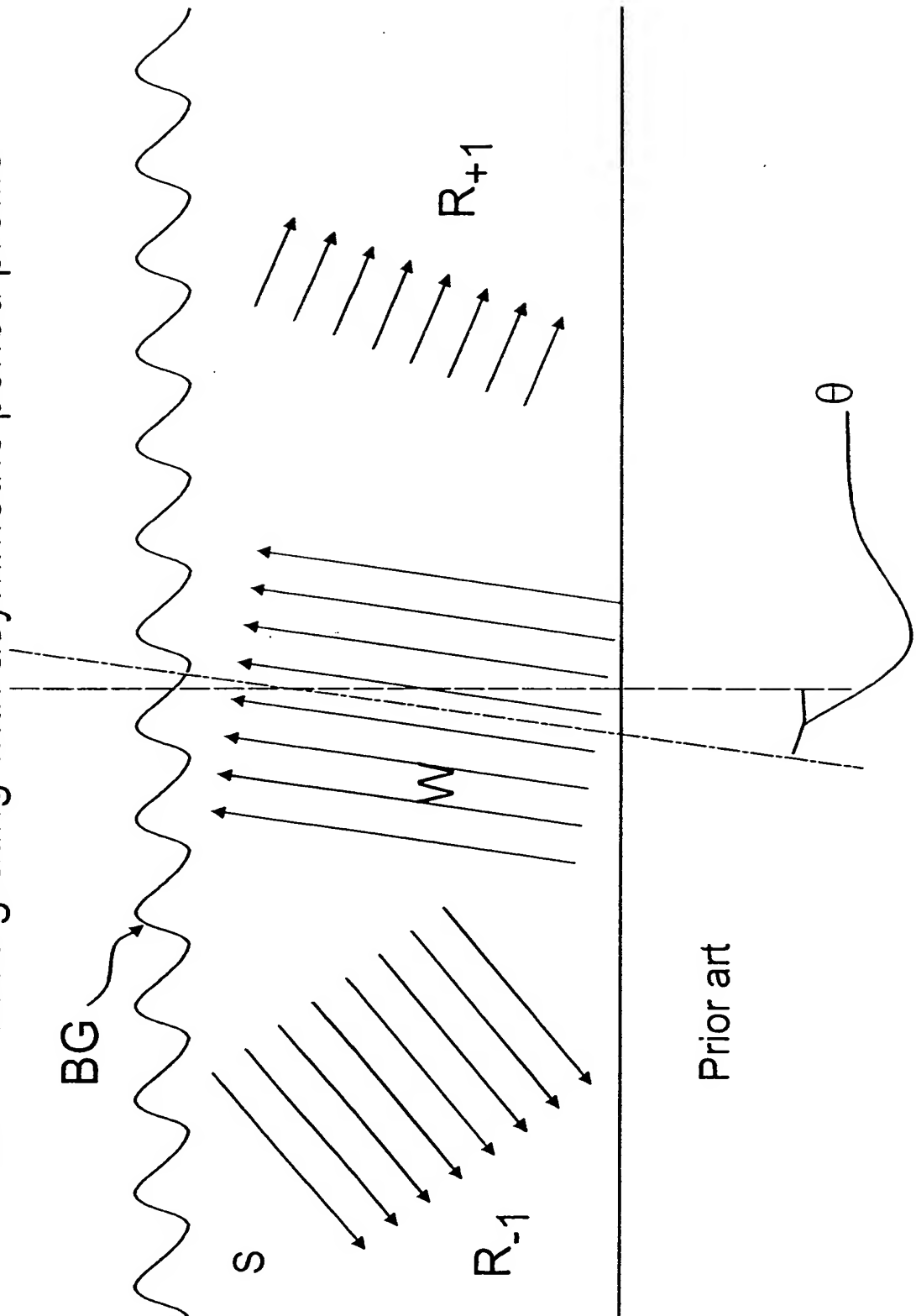


Figure 5
Continuous grating with asymmetric period profile



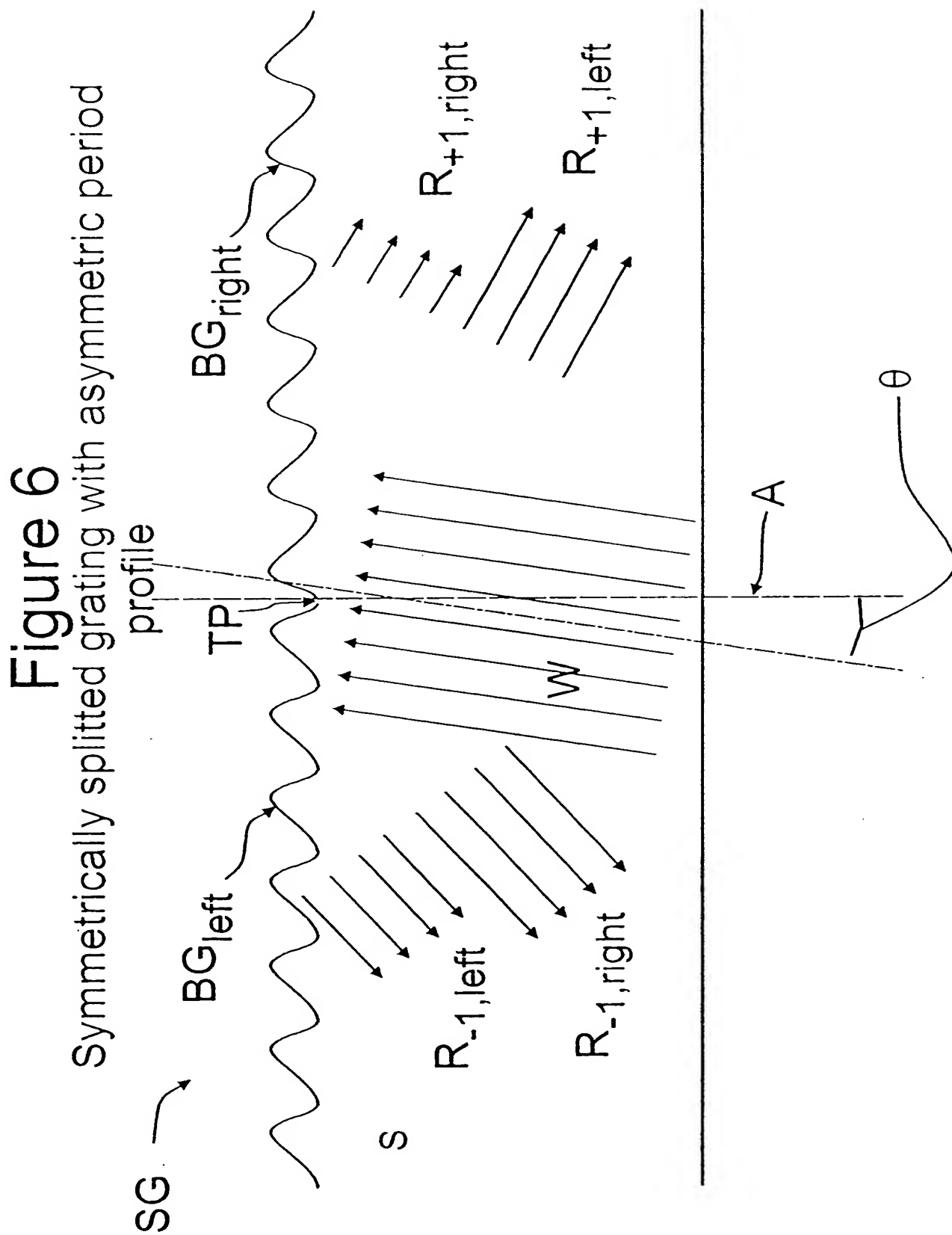


Figure 7

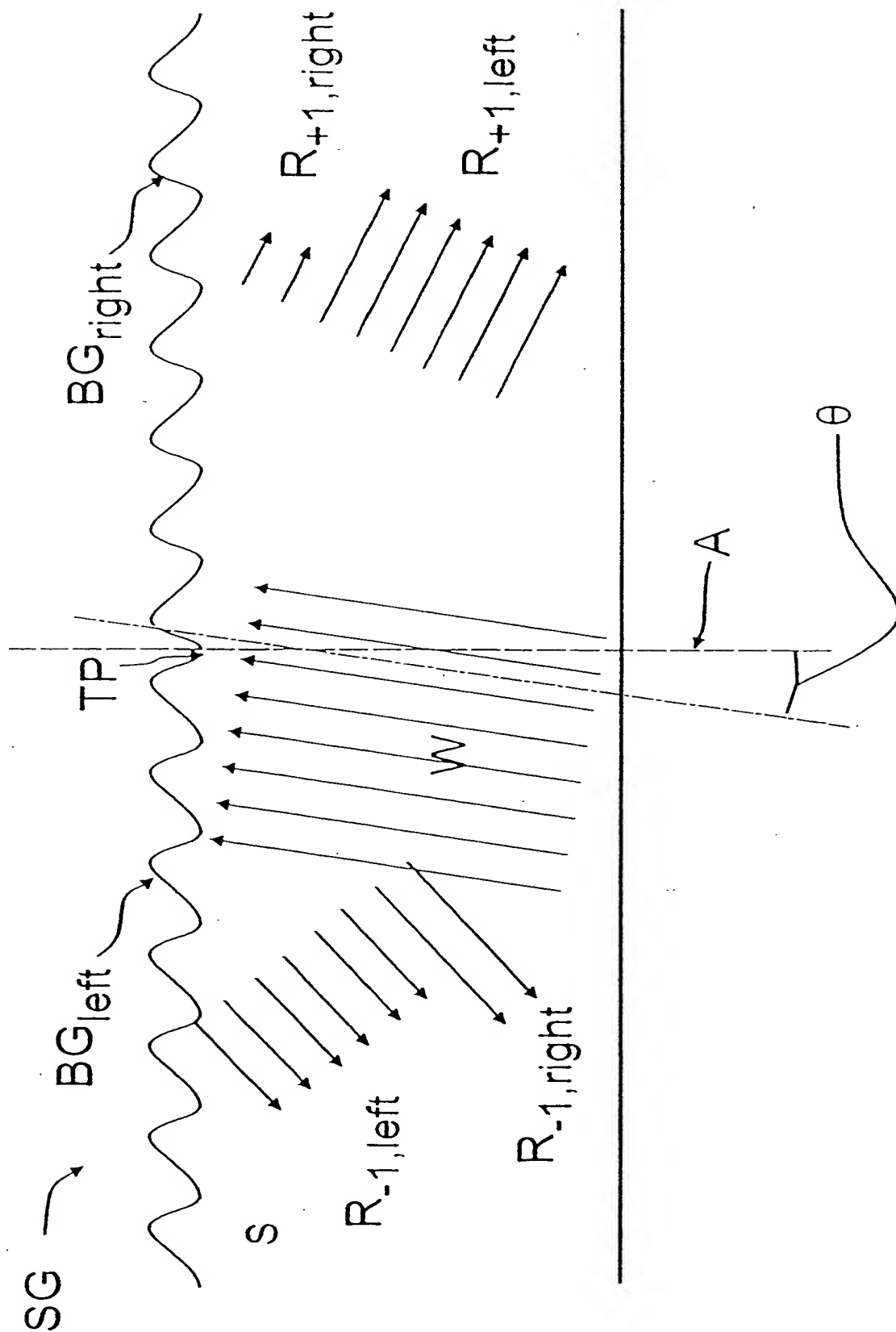
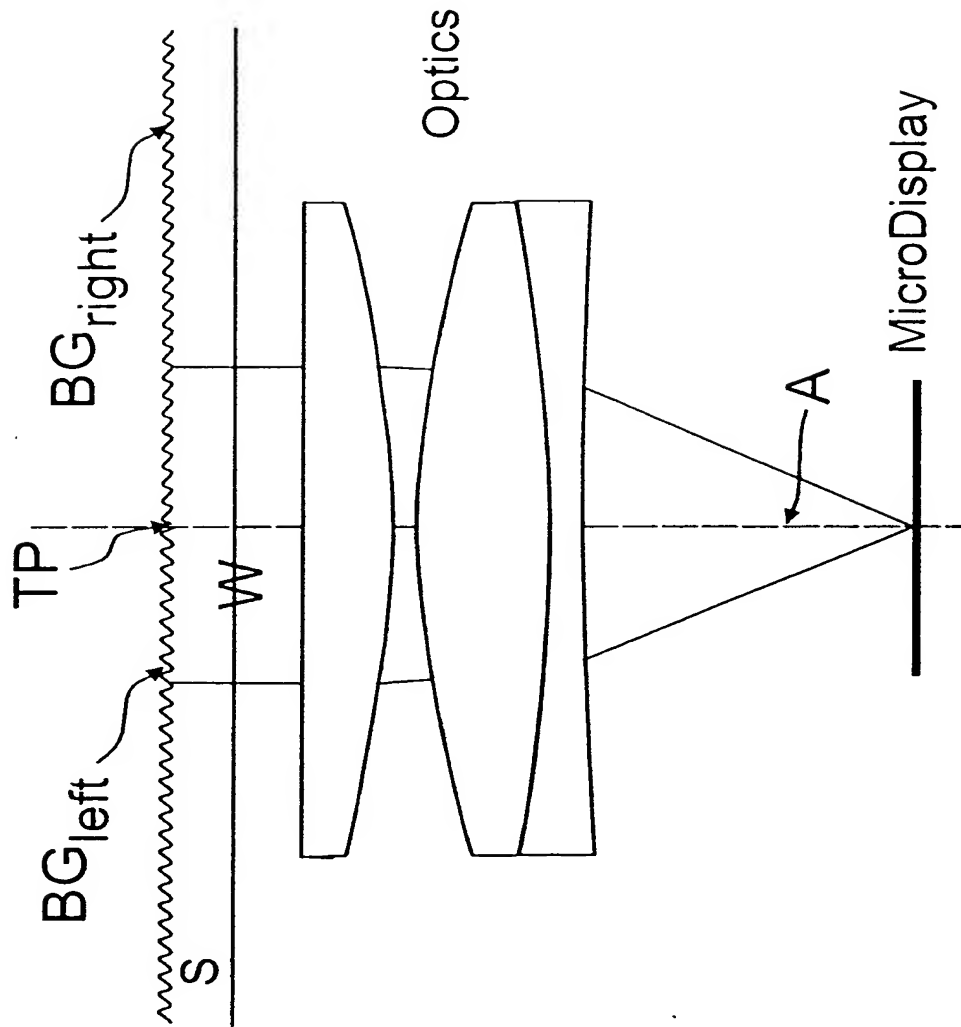


Figure 8
Beam shifting, center



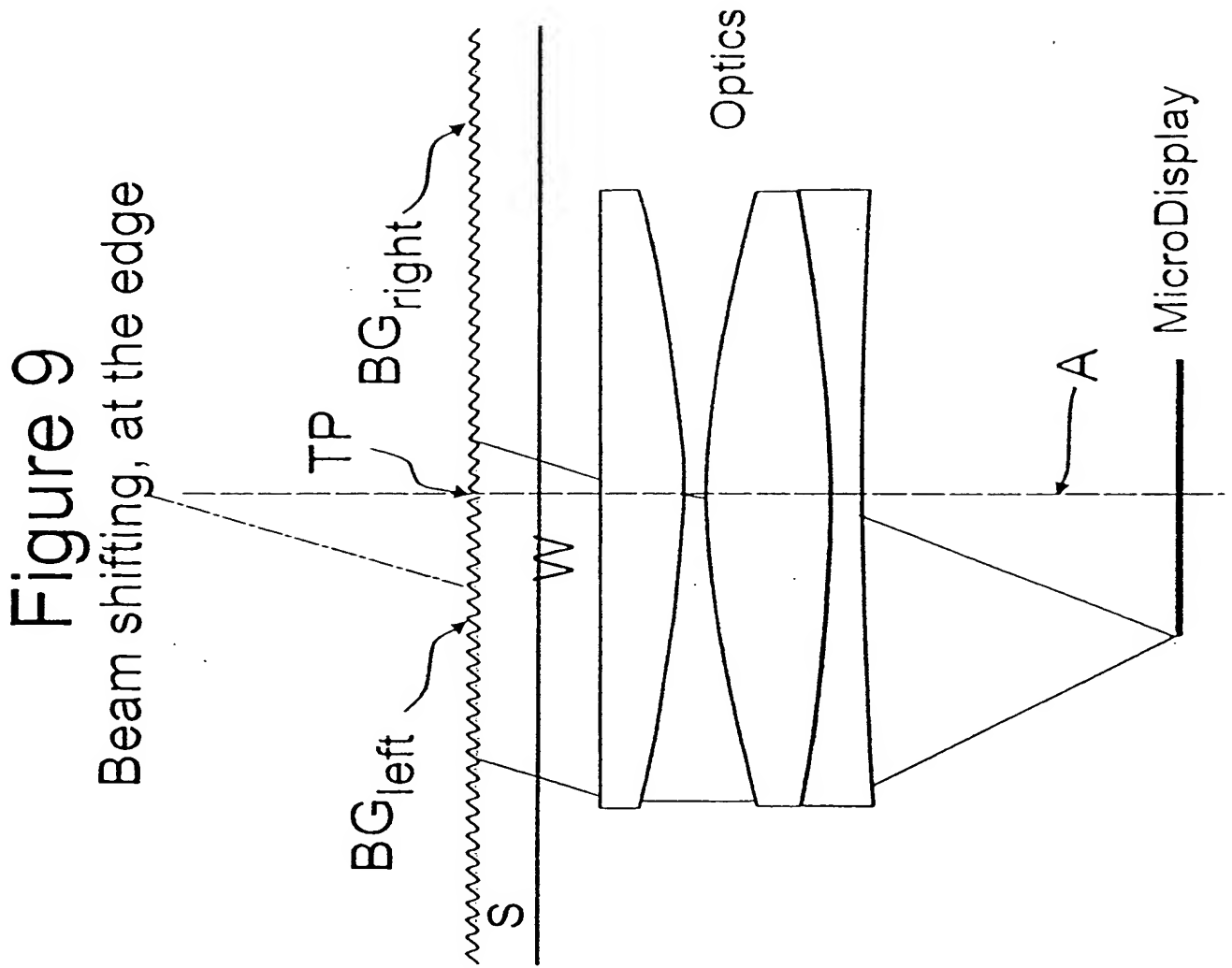


Figure 10
Beam shifting
alternative setup

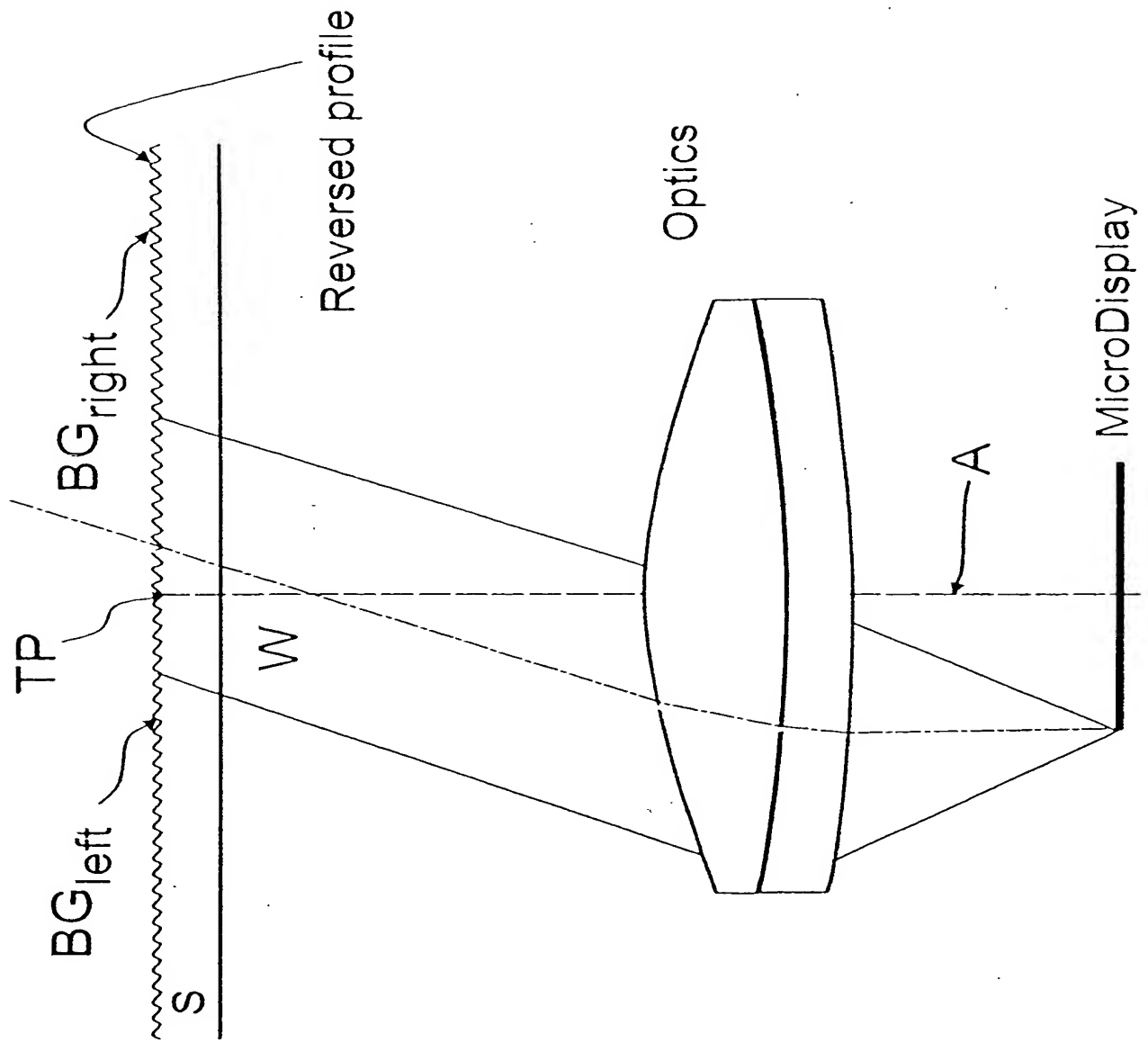
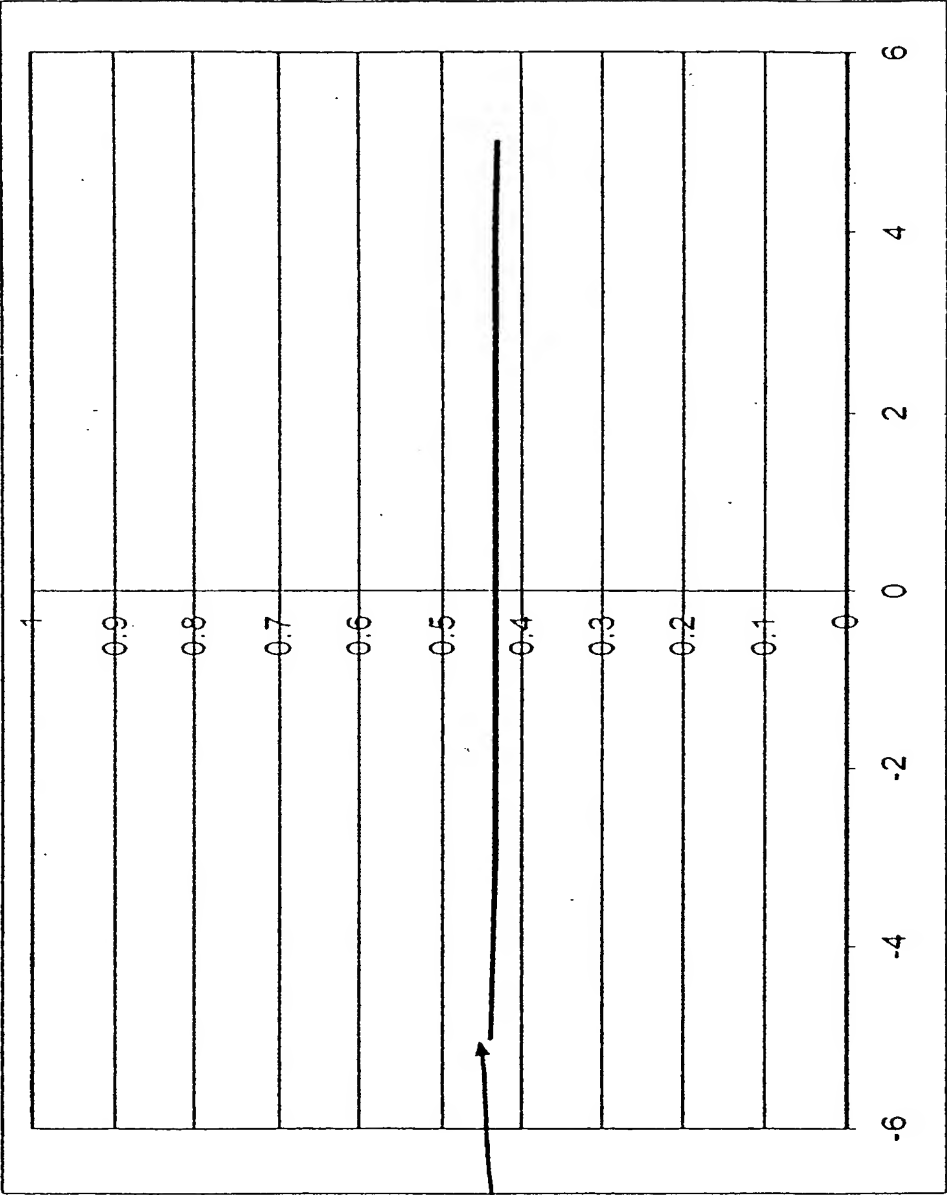


Figure 11

Compensation of Angular dependence

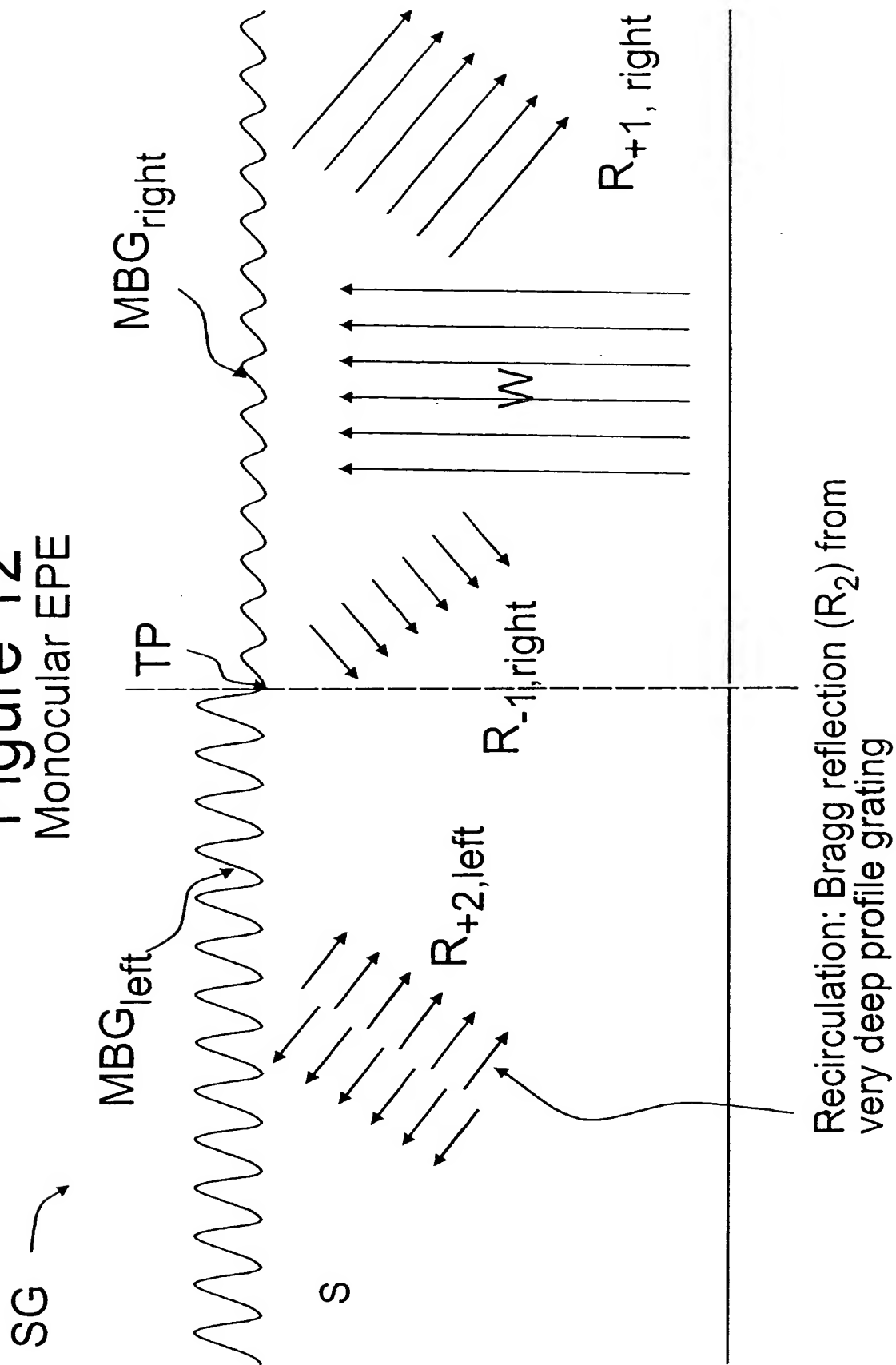
$$\text{Profile} = A^*[\sin(2\pi x/d) + 0.25\sin(4\pi x/d) + 0.05\sin(6\pi x/d)]$$



$$\eta = (0.5 - k\theta)R_{+1}(-\theta) + (0.5 + k\theta)R_{-1}(\theta)$$

Al coating

Figure 12



Coupling Efficiency as a function of grating depth

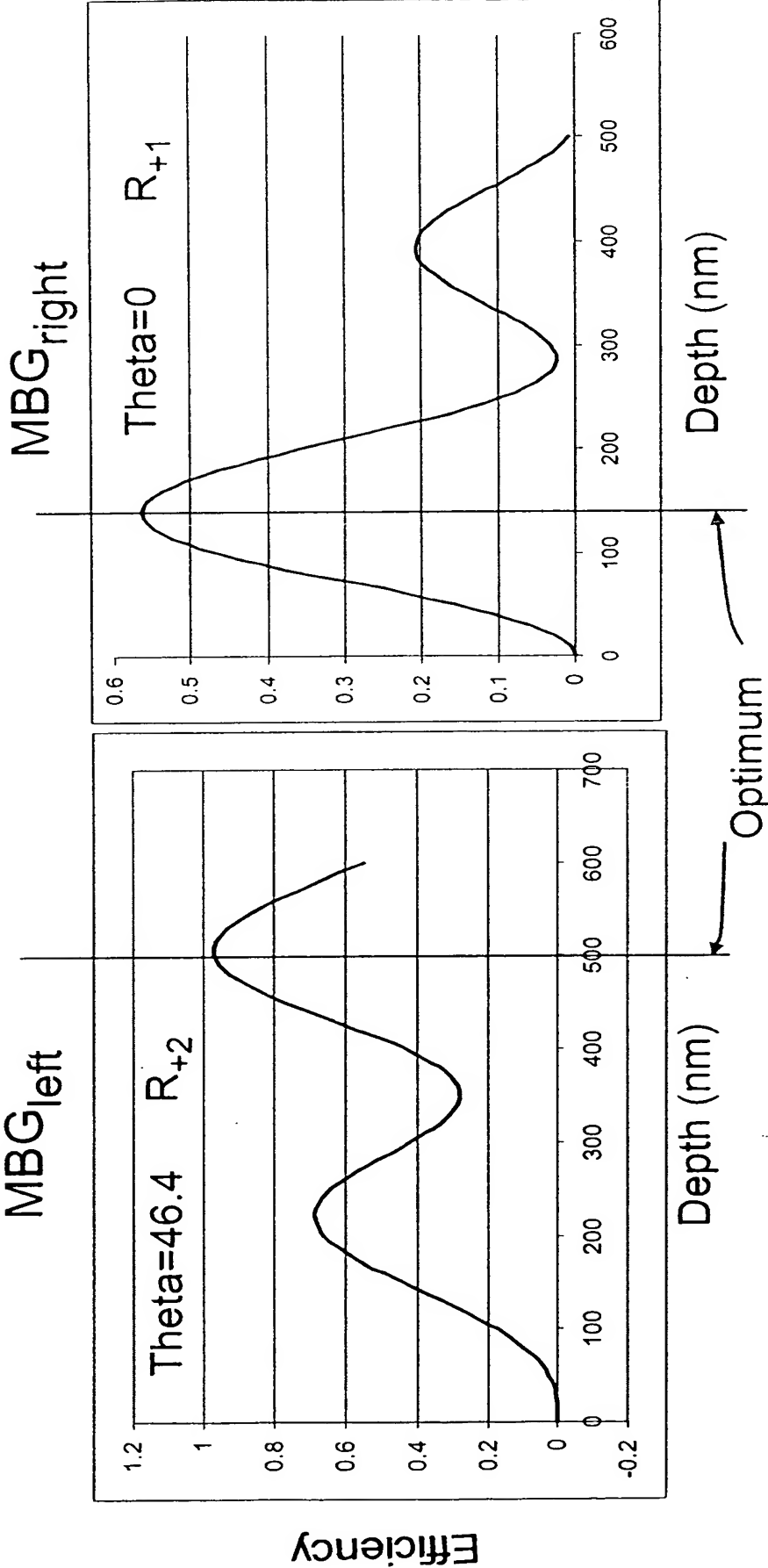


Figure 13b

Figure 13a